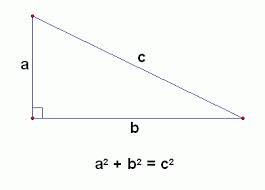
***Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ P: \_\_\_\_\_\_\_***

HW #31 Find Unknown Measurements given Area or Perimeter

Geometry: Due Tuesday, October 29th, 2013

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| 1. A square and a rectangle have the same area. If the side length of the square is 8 inches, what is the width of the rectangle if the length of the rectangle is 4? | |
|  | 3) A square and a semicircular region have the same perimeter. If the length of the radius of the semicircular region is 16, what is the length of one side of the square |
| 4) An 8-foot-by-4-foot garden space is increased by 3 times. If the 8-foot side is increased by 4 feet, how many feet must the 4-foot side have been increased? | 5)Given *m*∠*QST* = 135°, find *m*∠*QSR.* |
| 6) Given *m*∠*ABC* = 94°, find *m*∠*CBD* | 1. A rectangle has an area of 60 meters, and a width of 4 meters. What is the perimeter of the rectangle? |
| 1. The perimeter of a rectangle is 64 feet. The width of the rectangle is half as long as its length. Find the length and width of the rectangle. | |

GRASP REVIEW! (Mind the GAP with complete sentences!)

If the coordinates of a square that is inscribed in a circle are (-3,6), (5,6), (-3,-2), and (5,-2); what is the area of the circle? (Note you will have to use the Pythagoran Theorum and might have to look up what inscribed means. We believe in you!)

G

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